AMENDMENTS

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application,

1. (Previously presented) An isolated MHC Class I-restricted epitope peptide derived from survivin, comprising SEQ ID NO: 5, wherein the epitope peptide has a C_{50} value, defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which is at the most $20 \, \mu M$.

Claims 2-11. (Cancelled)

 (Withdrawn) A peptide according to claim 1 comprising at the most 20 amino acid residues.

 (Withdrawn) A peptide according to claim 12 that comprises at the most 10 amino acid residues.

Claims 14-17. (Cancelled)

18. (Withdrawn) A peptide according to any of the preceding claims, which is phosphorylated.

 (Withdrawn) A peptide according to claim 18, which comprises Thr34 of the native survivin disclosed in US 6.45.23.

Claims 20-23. (Cancelled)

(Currently amended) A peptide according to claim 1, which is capable of eliciting

[[INF]] IFN-y -producing cells in a PBL population of a patient having a cancer disease, said

[[INF]] IFN-y -producing cells having cytotoxic effect against survivin expressing cells of a

cancer cell line, including a cell line selected from the group consisting of the breast cancer cell

line MCF-7 available from ATCC as catalog number HTB-22TM and the melanoma cell line

FM3.

25. (Previously presented) An immunogenic composition comprising the peptide

according to claim 1.

Claims 26-28. (Cancelled)

29. (Withdrawn) A composition according to claim 25, further comprising an

immunogenic protein or peptide fragment selected from a protein or peptide fragment not

belonging to or derived from the survivin protein family.

30. (Withdrawn) A composition according to claim 29, where the protein or peptide

fragment not belonging to or derived from the survivin protein family is a protein, or peptide

fragment hereof, involved in regulation of cell apoptosis.

31. (Withdrawn) A composition according to claim 29 where the immunogenic

protein or peptide fragment selected from a protein or peptide fragment hereof not belonging to

or derived from the survivin protein family is Bcl-2 or a peptide fragment hereof.

Claims 32-40. (Cancelled)

41. (Withdrawn) A method of detecting in a cancer patient the presence of survivin

reactive T-cells, the method comprising contacting a tumour tissue or a blood sample with a

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complex according to claim 38 and detecting binding of the complex to the tissue or the blood cells.

- (Withdrawn) A molecule that is capable of binding specifically to a peptide according to claims 1.
- (Withdrawn) A molecule according to claim 36 which is an antibody or a fragment hereof.
- (Withdrawn) A molecule that is capable of blocking the binding of a molecule according to claim 42 or 43.
- 45. (Withdrawn) A method of treating a cancer disease, the method comprising administering to a patient suffering from the disease an effective amount of the composition according to claim 25, a molecule according to claim 42 or a molecule according to claim 44.
- 46. (Withdrawn) A method according to claim 45 wherein the disease to be treated is a cancer disease where survivin is expressed.
- 47. (Withdrawn) A method according to claim 46 wherein the cancer disease is selected from the group consisting of a haematopoietic malignancy including chronic lymphatic leukemia and chronic myeloid leukemia, melanoma, breast cancer, cervix cancer, ovary cancer, lung cancer, colon cancer, pancreas cancer and prostate cancer.
- (Withdrawn) A method according to claim 45, which is combined with a further treatment.
- (Withdrawn) A method according to claim 48 wherein the further treatment is radiotherapy or chemotherapy.

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(Cancelled).

51. (New) The isolated peptide according to claim 1, said peptide comprising at the

most 20 amino acid residues.

52. (New) The isolated peptide according of claim 1, said peptide comprising at the

most 10 amino acid residues.

53. (New) The isolated peptide according to claim 1, said peptide having a C₅₀ value,

defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which

is at the most 10 µM.

54. (New) The isolated peptide according to claim 1, said peptide having a C₅₀ value,

defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which

is at the most 5 µM.

55. (New) The isolated peptide according to claim 1, said peptide having a C₅₀ value,

defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which

is at the most 2 µM.

56. (New) The isolated peptide according to claim 1, said peptide consisting of SEQ

ID NO:5.

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